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ELECTRIC POWER TRANSMISSION AND TELEPHONE NETWORK IN NORTHWEST KOREA

Corrent: The following two charts and four tables show the electric power and telephone networks in northwest Korea under the administration of the Plyong-yang Transmission Department. They are reproduced from an undated blueprint, published by the Bureau of Electricity Administration of the Democratic People's Republic of Korea, entitled, "Summary of Plyongyang Transmission Department's Maintenance Districts and Telephone Network."

Chart No 1 shows the maintenance offices for the high-tension power lines extending from the 38th Parallel to Pyongyang northward to the Suplang Power Plant, and southwestward along the Korean-Manchurian Border to Tasado. Eastward from Plyongyang the lines extend to the Chiangjin Fower Plant No 2

Chart No 2 shows the telephone network under the jurisdiction of the Plyong-yang Transmission Department. The maintenance offices for this telephone system are generally located in the same towns or villages as are those of the electric power system.

The four tables which priceds the charts give additional information on the equipment of the power and telephone lines. A list of place names mentioned in the charts and tables with their geographical coordinates, has been added to show, where identifiable, the approximate location of each maintenance station. Figures in tables and charts have been reproduced from the blueprint. No attempt has been made to reconcile apparent discrepancies between the tables and the charts.

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- 1 -

			SECTION TERMINA	15				IC WIRE*
		NAME OF LINE	FRON:	<u>To</u> :	VOLTAGE (KV)	EXACT LENGTH	MATERIAL	THICKNESS
		NO 1 PTYCHSTANS	Hadrenton	No I PIYONGYANG .	154	199.9	STEEL CORE	St 7/3.1**
		SEOUL	No. 1. Privar grang	BTH PARALLEL (SEGUL)	154	135.5 (187.5)	STEEL CORE	AL 30/3.1 St 7/2.9
	No 2 Pinosgyang	Sup tung	No 2 P'YONGYANG	220	179.5	ALUMINUM STEEL CORE -	AL 30/2.9 St 7/2.82	
00		UNSAN	Songyana	Unsan	154	60.3	STEEL CORE	AL 54/2.82 St 7/3.1
CONFIDENTIAL	NAMPTO	No 2 Pirongrang	NAMP 10	220	39.5	STEEL CORE	AL 30/3.1	
	TASANO	Suptung	TASADO	220	74.9	STEEL CORE	AL 54/2.82 St 7/2.82	
	CONNECTING LINE	No I PIYONGYANG	No 2 Pirongrang	154***	17.3	BARE HEAVY	AL 54/2.82 19/4	

ST 7/3.1 AL 30/3.1 MEANS SEVEN STEEL STRANDS, EACH OF WHICH IS 3.1 MILLIMETERS THICK, AND 30 ALUMINUM STRANDS, EACH OF WHICH IS 3.1 MILLIMETERS THICK.

^{***} AT PRESENT, 66 KILOVOLTS ARE TRANSMITTED.

TABLE 2. PTYONGYANG TRANSMISSION DEPARTMENT TRANSFORMERS

				DESCRIPTION OF TRANSFORMER				
	NAME OF STATION	TRANSFORMER	OUTPUT (KVA)	Power PER Transformer (kva)	PHASE	PRIMARY VOLTAGE (KV)	SECONDARY VOLTAGE (KV)	
	No 1 P	FONSYANG					£ .	
	Ser		90,000	15,000×7*	1	154	66 -	
	SET	3	1.500	500×3*	1	н	3,3	
	567		2,250	750×3*	1	66	3.3	
	No 2 Pt	LUAYDIO						
00	Set	•	200.000	100,000 [x <u>2</u>]	3	220	66	
CONFIDENTIAL	SET :	e	3.900 [s·c]	1.350×4*	1	66	22	
E C	1 Sc 1	c	900	300×3		22	3.3	
E	UNSA".							
	SE 1	•	34.500	19,500x1 15,000x1	3	154 154	66 66	
	SET	в	1,200	400x3	1	22	3.3	
	Namp'o		100,001	100,000 Zx <u>1</u> 7	3	220	66	
	TASADO		500,000	100,00012	3	220	66	

ONE TRANSFORMER IN EACH SET IS HELD IN RESERVE. ALTHOUGH THE SOURCE STATES THAT ONE TRANSFORMER EACH IN SETS B AND C IS HELD IN RESERVE, IT APPEARS FROM THE OUTPUT FIGURES THAT THE RESERVE TRANSFORMERS ARE IN USE.

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TABLE 3. PYYONGYANG TRANSMISSION DEPARTMENT TELEPHONE LINES

						ANTHONY SELEPH	ONE LINES	
		NAME OF LINE	SECTION TERMINA	<u>. s</u>	Exact	No or	TELEPHONE WIRE	
			FROM:	<u>10:</u>	LENGTH (KH)	CIRCUITS	KIND OF MATERIAL	THICKNESS
		No I PIYONGYANG	Hagica'on	PITONGYANG	217.8	2	BARE HEAVY COPPER	(MM) 3.2
	SEOUL	PTYONGYANG	SECUL	219.1	2	GALVANIZED IRON WIRE BARE HEAVY COPPER	3.2 4	
		No 2 P'YONG FANG	Suprung	No 2 Piyongyang	195.4	2	GALVANIZED IRON WIRE BARE HEAVY COPPER	3.2 4
	UNSAN	Songr: NG	UNSAN	70.2		GALVANIZED IRON WIRE	3.2 4	
CONF		Namp'o	No 2 Pirongrang			2	STEEL CORE ALUMINUM GALVANIZED IRON WIRE	ST. 1/1.8
TVILLERUI ANOD	TASADO		Name'o	42.5	2	BARE HEAVY COPPER GALVANIZED IRON WIRE	3.2 4	
	INJAUU	Suptona	TASADO	81.3	2	BARE HEAVY COPPER	3.2 T	
		CONNECTING LINE	No 2 PIYONGYANG	No 1 PTYONGYANG	8.05	3	GALVANIZED IRON WIRE STEEL CORE ALUMINUM	ST. 1/1.8 AL. 6/1
							3.2 мм 4мм	

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Table 4. Maintenance Districts and Stations Under P'yongyang Transmission Department

District and Station	Tower Numbers	Distance (km)	Transmission Line
Songyang District			
Hagich'on	1-18	6.00	7
Sinp'ung	19-47	9.00	
Tokko-ri	48-75	8.00	
Chunghung	76-102	8.00	
Sach'ang-ni	103-123	7.00	
Inch'o-ri	124-155	9.00	
Onyang-ni	156-200	13.00	
Samgo-ri	201-231	11.00	
Yongwon	232-289	15.00	-No 1 P'yongyang Transmission
Songyang	270-330	13.00	Line
No 1 P'yongyang District			
Pukch 'ang	331-381	14.05	
Kach'ang-ni	382-415	12.45	
Sinch 'ang-ni	416-470	19.05	
Yongt'aeng-ni	471-514	14.85	
Kwangdong-ni	515-568	18.35	
Nosan-ni	569-610	16.25	
P'yongyang	611-622	4.54	
No 1 P'yongyang District			
Plyongyang	1-36	10.20	7
Majang-dong	37-96	18.80	
Yu-ri	97-130	12.40	Room I Myamamiasis
Tumu-ri	131-156	11.80	Beoul Transmission Line
Sindang-ni	157-189	19.50	

- 5 -

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•) '	CONFIDENT	<u> PIAL</u>	25X1
District and Station No 1 P yongyang	Tower <u>Numbers</u>	Distance (km)	Transmission Line
District Chungch ong Nogan-ni	190-212 213-243	8.20 11.70	¥
Namch on Switching Station District Namch on			-Secul Transmission Line
Wonu-dong	244-280	14.00	
Kilsu-ri	281-311	12.00	
	312-337	12.00	
Hwajang	338-357	11.00	
Kyongnung	358-406	16.10	
Munsan	407-456	15.80	
Kwansan	457-504	15.60	
Susaeng-ni	505-526	7.90	
No 2 P'yongyang District			
Sup'ung	1-13		
Sakchu	14-34	5.00	
Onp ung-dong	35-53	8.00	
Ch angsin dong	54-82	8.00	
Taean-dong	83-113	11.00	
Ch'onjin-dong	114-134	8.00	
Kusong	135-167	i	
Nacha-dong	168-197	12.00	9
T'aech'on	198-226	10.00	
Pakeh on	8-54	12.00 *	No 2 Piyongyang
Yongmi	227-271		Transmission Line
Mansong	272-317	16.00 ***	
Sukeh on	318-354	16.20	·
9		1	

- 6 -

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District and Station		Tower Numbers	Distance (km)	Transmission Line
No 2 P'yongyang District	(4)			
Sogam	:	365- 389	13.30	
Yongjang		390-437	13.00	No 2 P'yongyang
Choch on		438-462	6.80	Transmission Line
Unsan District				
Songyang		1-20	7.00	
Tokch on		21-49	12.60	
Somin-dong		50 - 68	8.70	
Kujang-dong		69-112	15.80	Jnsan Transmission
Kosong-dong	- 1	113-141	9.80	Line
Unsan		142-162	6.40	
Namp'o District		9		
Chochion		1-11	4.70	
Taep-yong	* 1	12-30	6.80	
Kiyang-ni		31-62	13.70	
Ipsong-ni		63 - 85	— N	amp'o Transmission Line
Namp 'o		86-102	6.40	
Tasado District			_	
Su _k 'ung		1-15	6.20	
Pup'yong-dong		16-28	6.80	
Toryong-dong		29-51	9.40	
Isong-dong		52-71	8.70	
Waryong-dong		72-95	10.40 Li	ado Transmission ne
Uiju	1	96-115	7.90	
Ssanghak-tong	1.0	116-142	11.40 ****	
Tham-dong		143-170	9.80	
Pukehung		171-175	4.50	
		-7-		

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	-6	25X1
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District and Station	Tower Numbers	Distance (km)	Transmission Line
Connecting Line			
No 2 P'yongyang	1-28	6.50	-Connecting Trans-
No 1 P'yongyang	29-64	10.50	mission Line

- * Revised distance from No 128 to No 1 is 305 meters.
- ** Revised distance from No 8 to No 54 is 18.8 kilometers.
- *** Revised distance from No 2 to No 85 is 2.6 kilometers.
- **** Revised distance from No 55 to No 78 is 7.8 kilometers.

***** 11.20 kilometers, according to Chart No 1.7

List of Place Names

	Lat N	Long E
Ch'angsin-dong	40 14	125 07
Ch 'onjin-dong	40 03	125 14
Chochion	39 02	125 40
Hwajang	38 04	126 39
Ibam-dong	40 01	124 26
Inch'o-ri	40 04	126 52
Ipsong-ni	38 50	125 26
Isong-dong	1+0 18	124 46
Kach'ang-ni	39 32	126 17
Kilsu-ri	38 09	126 35
Kiyang-ni	38 55	125 32
Kosong-dong	39 53	125 53
Kujang-dong	39 52	1.26 01
Kusong	39 59	125 15
Kwangdong-ni	39 12	1.25 57
Kwansan	37 42	126 52
Kyongnung	38 00	126 40

-8-

CONFIDENTIAL

39 24

40 00

37 35

39 25

40 27

40 09

39 55

125 31

124 32

126 53

125 37

124 57

125 13

125 30



- 9 -

Songyang-ni

Susaeng-ni

Sukch 'on

Sup'ung

Tacan-dong

T'aech'on

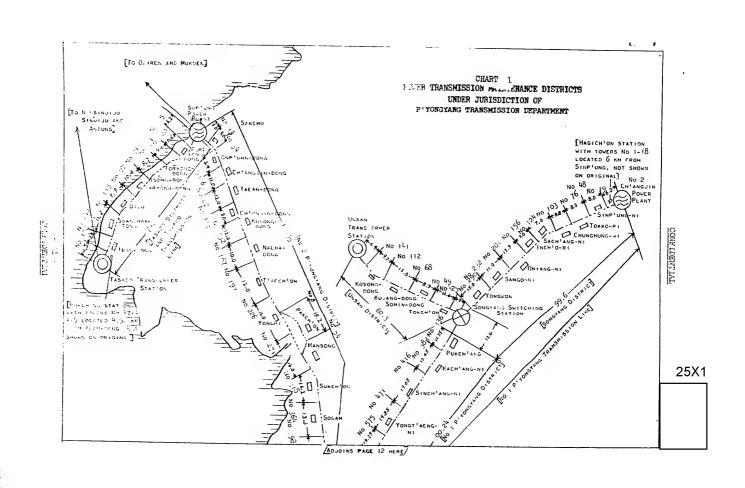
Ssanghak-tong

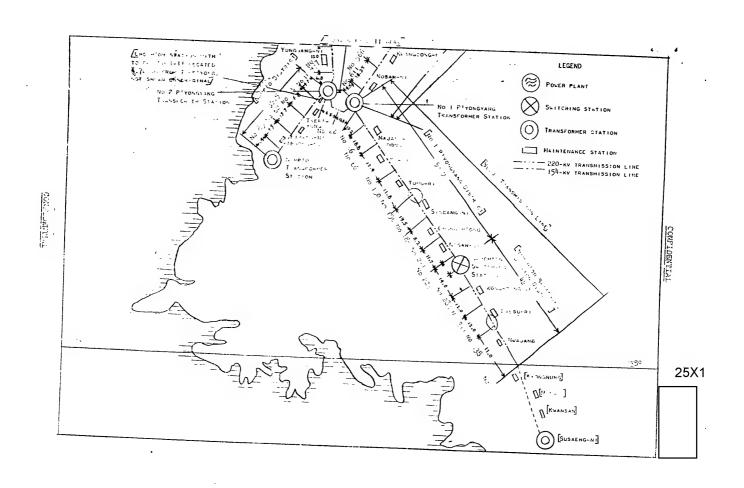
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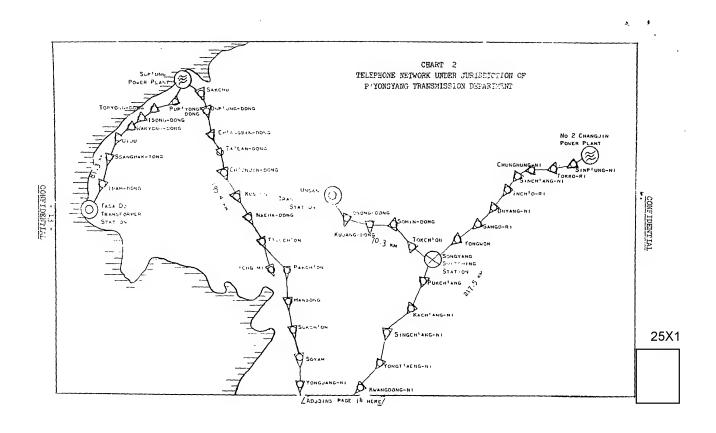
•	CONFIDENTIAL		
	Lat N		Long E
Taep'yong	38 59		125 37
Tasado	39 51		124 26
Tokeh on	39 45	4 4	126 18
Tokko-ri	40 07		127 08
Toryong	40 21	4	124 51
Tumu-ri	38 40	1	126 06
Uiju	40 12		124 32
Unsan	39 58	1	125 48
Waryong-dong	40 14		124 40
Wonu-dong	38 13		126 32
Yongjang-ni	39 2 9	1	125 30
Yongmi	39 40		125 31
Yongt'aeng-ni	39 19	4 3	126 04
Yongwon	39 35		125 52
Yu-ri	38 46	1.	126 01

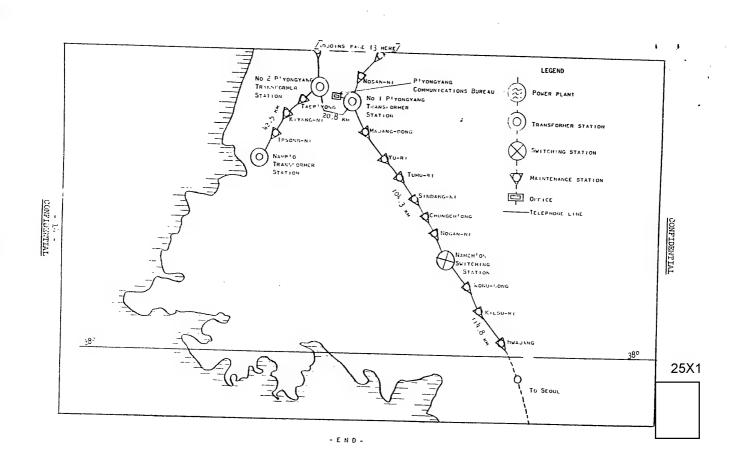
 $\angle \overline{\mathtt{See}}$ Chart 1 and Chart 2 on following pages. \overline{J}

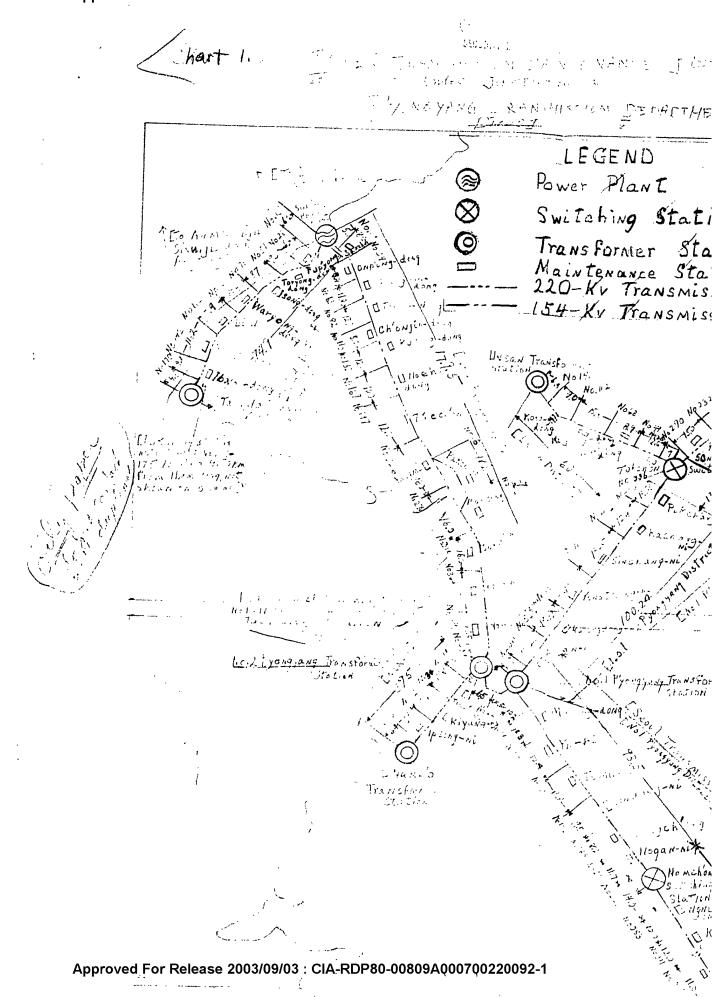


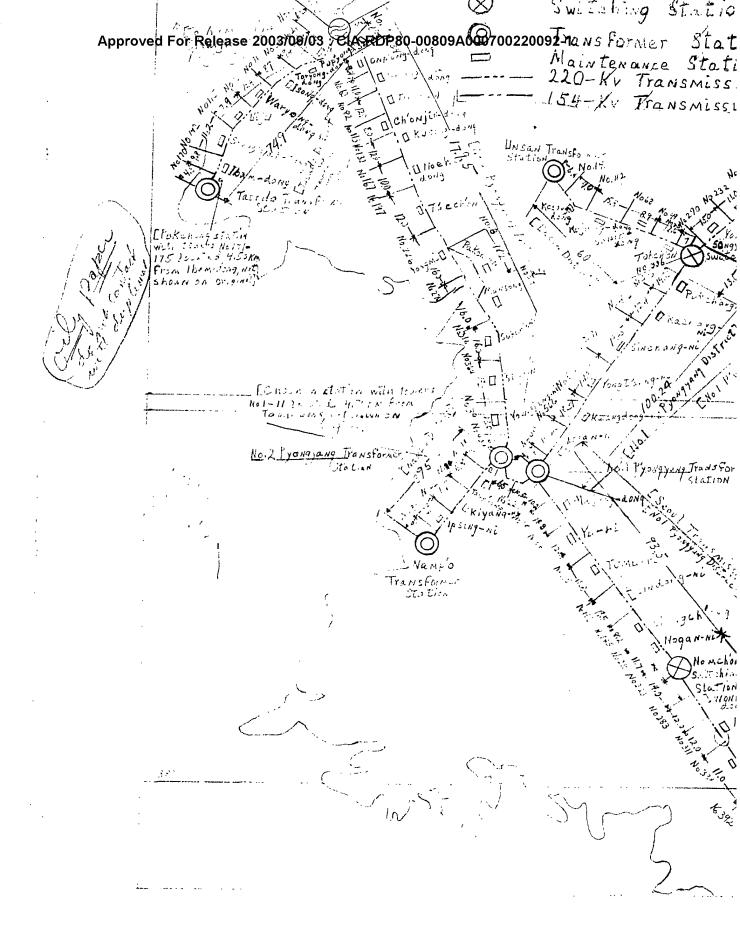


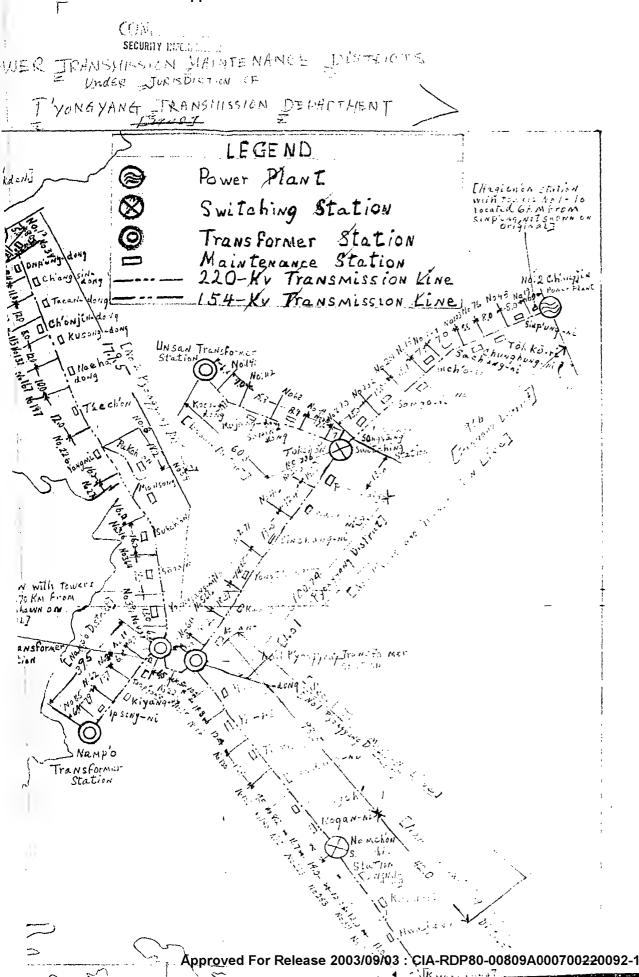






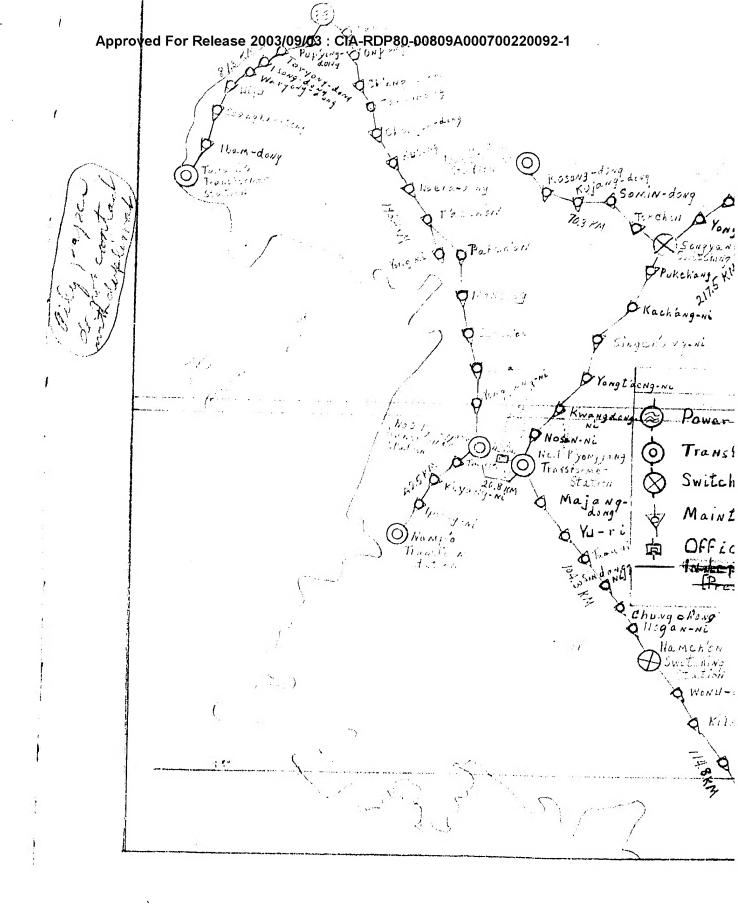




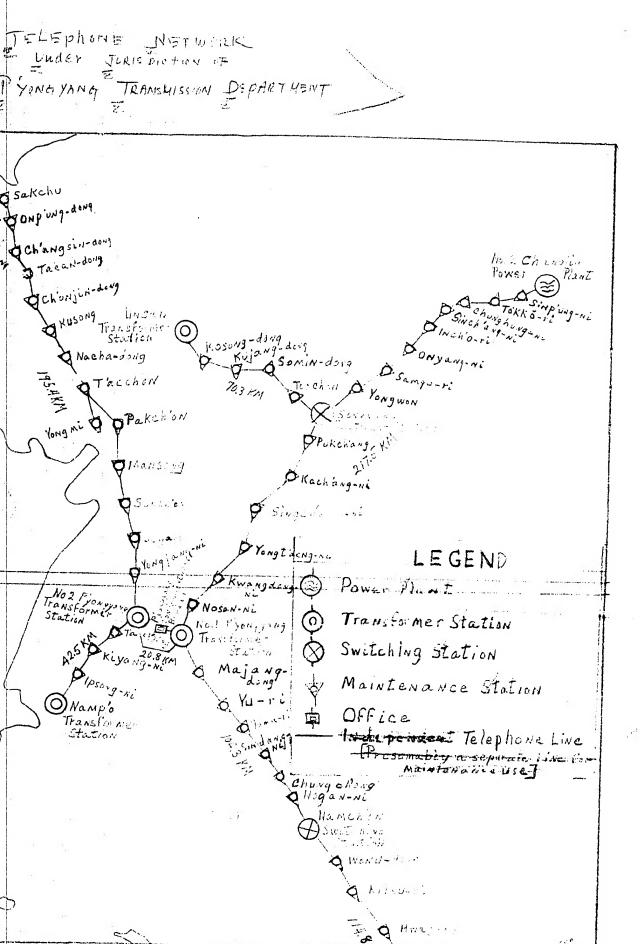


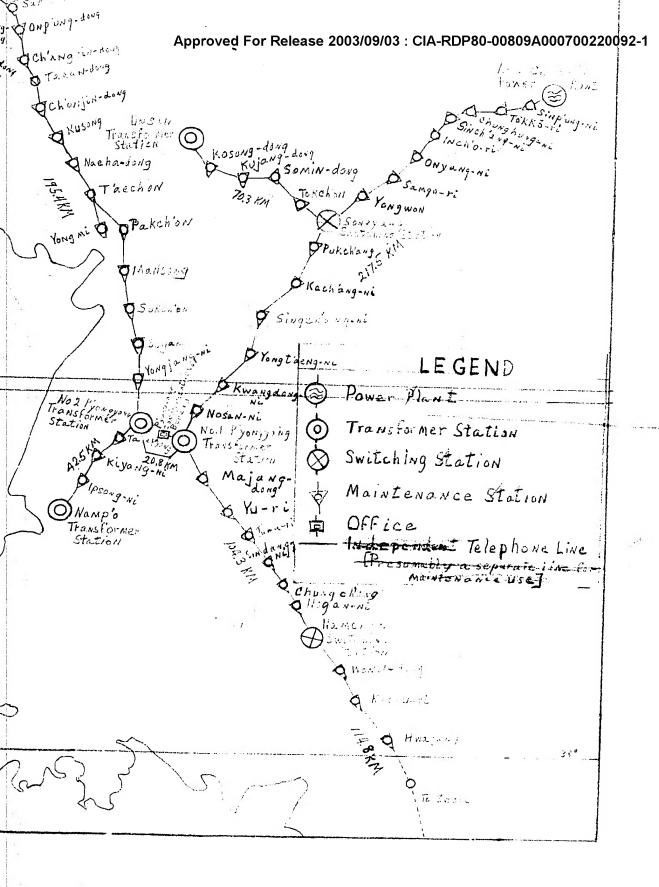


Appraved For Release 2003/09/03: CIA-RDP80-00809A000700220092-1 220-KV Transmission Kine Hail Chings & 154-KV Fransmission Kine 10 No 12 No. 16 No. UNSAN Transformer Station No.171 ind with towers 170 Km from Shawn on PANSFORME! tion 6.1 Pyosyyany Transformer Station Nemp'o Transformer Station [MUNSON]



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